

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query  | DBs                | Default Operator | Plurals | Time Stamp          |
|-------|------|---|--------------------|------------------|---------|---------------------|
| SI    | 297  | (US-20080038406-\$ or<br>US-20020127704-\$ or<br>US-20060172376-\$ or<br>US-20050252858-\$ or<br>US-20090065444-\$ or<br>US-20010049132-\$ or<br>US-20030203069-\$ or<br>US-20070009631-\$ or<br>US-20020142364-\$ or<br>US-20040053410-\$ or<br>US-20040102328-\$ or<br>US-20060251633-\$ or<br>US-20080187981-\$ or<br>US-20090325144-\$ or<br>US-20040175780-\$ or<br>US-20050095318-\$ or<br>US-20070148755-\$ or<br>US-20020162141-\$ or<br>US-20030032149-\$ or<br>US-20040115766-\$ or<br>US-20050221417-\$ or<br>US-20070178446-\$ or<br>US-20080261264-\$ or | US-PGPUB;<br>USPAT | OR               | ON      | 2010/01/07<br>10:13 |

US-20030173275-\$ or  
US-20050023199-\$ or  
US-20060091077-\$).  
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20070199894-\$ or US-  
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20090022849-\$).did.  
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| S2  | 26  | Sl (tangential)   | US-PGPUB;<br>USPAT; USOCR                          | AND  | ON | 2010/01/07<br>10:39 |
| S3  | 432 | (tangential)(bacteri\$3)<br>(flux)(permeat\$3)<br>(pressure)                    | US-PGPUB;<br>USPAT; USOCR                          | AND  | ON | 2010/01/07<br>10:53 |
| S4  | 118 | (tangential)(bacteri\$3)<br>(flux)(permeat\$3)<br>(pressure)<br>(recirculation) | US-PGPUB;<br>USPAT; USOCR                          | AND  | ON | 2010/01/07<br>10:53 |
| S5  | 142 | (tangential)(bacteri\$3)<br>(flux)(permeat\$3)<br>(pressure)(viab\$5)           | US-PGPUB;<br>USPAT; USOCR                          | AND  | ON | 2010/01/07<br>11:06 |
| S6  | 0   | (tangential)(bacteri\$3)<br>(flux)(permeat\$3)<br>(pressure)(viab\$5)           | US-PGPUB;<br>USPAT; USOCR                          | SAME | ON | 2010/01/07<br>11:06 |
| S7  | 101 | (tangential)(bacteri\$3)<br>(flux)(permeat\$3)<br>(pressure)(surviv\$6)         | US-PGPUB;<br>USPAT; USOCR                          | AND  | ON | 2010/01/07<br>11:07 |
| S8  | 47  | ((cross)adj(flow))(bacteri<br>\$3)(flux)(permeat\$3)<br>(pressure)(surviv\$6)   | US-PGPUB;<br>USPAT; USOCR                          | AND  | ON | 2010/01/07<br>11:09 |
| S9  | 47  | ((cross)adj(flow))(bacteri<br>\$3)(flux)(permeat\$3)<br>(pressure)(surviv\$6)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | AND  | ON | 2010/01/07<br>11:09 |
| S10 | 0   | (tangential)(bacteri\$3)<br>(flux)(permeat\$3)<br>(pressure)(surviv\$6)         | EPO; JPO;<br>DERWENT                               | AND  | ON | 2010/01/07<br>11:09 |

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| S11 | 1103 | 426/61.ccls.  | US-PGPUB;<br>USPAT; USOCR | OR   | ON | 2010/01/07<br>11:11 |
| S12 | 5    | 426/61.ccls.<br>(tangential)  | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2010/01/07<br>11:11 |
| S13 | 13   | "4477471"  <br>"4599313"   "4716115"<br>"4728516"  <br>"4740593"   "4871539"<br>"4918014"  <br>"4956177"   "5066588"<br>"5139950"  <br>"5218101").PN. OR<br>("5348881").URPN. | US-PGPUB;<br>USPAT; USOCR | OR   | ON | 2010/01/07<br>11:11 |
| S14 | 652  | "426".clas.(tangential)   | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2010/01/07<br>11:12 |
| S15 | 210  | "426".clas.(tangential)<br>((filter)or(filtration))   | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2010/01/07<br>11:14 |
| S16 | 5547 | (acid)(tolera\$5)(batch)<br>(ferment\$6)  | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2010/01/08<br>14:49 |
| S17 | 72   | (acid)(tolera\$5)(batch)<br>(ferment\$6)  | US-PGPUB;<br>USPAT; USOCR | SAME | ON | 2010/01/08<br>14:49 |
| S18 | 28   | (acid)(tolera\$5)(batch)<br>(ferment\$6)(bacteria)  | US-PGPUB;<br>USPAT; USOCR | SAME | ON | 2010/01/08<br>14:50 |
| S19 | 3    | ((acid)near(tolera\$5))<br>(batch)(ferment\$6)<br>(bacteria)(acid)(tolera<br>\$5)   | US-PGPUB;<br>USPAT; USOCR | SAME | ON | 2010/01/08<br>14:51 |

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| S20 | 143 | ((acid)near(tolera\$5))<br>(batch)(ferment\$6)<br>(bacteria)(acid)(tolera<br>\$5)            | US-PGPUB;<br>USPAT; USOCR                          | AND | ON | 2010/01/08<br>14:51 |
| S21 | 215 | ((acid)near(tolera\$5))<br>(propagat\$6)(bacteria)<br>(acid)(tolera\$5)                      | US-PGPUB;<br>USPAT; USOCR                          | AND | ON | 2010/01/08<br>16:01 |
| S22 | 229 | ((acid)near(tolera\$5))<br>(continuous)(ferment<br>\$6)(bacteria)(acid)<br>(tolera\$5)       | US-PGPUB;<br>USPAT; USOCR                          | AND | ON | 2010/01/08<br>16:13 |
| S23 | 31  | ((acid)near(tolera\$5))<br>((continuous)near<br>(ferment\$6))(bacteria)<br>(acid)(tolera\$5) | US-PGPUB;<br>USPAT; USOCR                          | AND | ON | 2010/01/08<br>16:13 |
| S24 | 19  | "474,608"  | US-PGPUB;<br>USPAT; USOCR                          | OR  | ON | 2010/01/08<br>16:15 |
| S25 | 3   | "9919503"  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR  | ON | 2010/01/08<br>16:16 |
| S26 | 0   | ((product\$3)near(acid)<br>near(tolerant)near<br>(bacteria))                                 | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR  | ON | 2010/01/08<br>16:18 |

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| S27 | 58    | (produc\$3)((acid)near<br>(tolerant)near<br>(bacteria))                                      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>PO; DERWENT | SAME | ON | 2010/01/08<br>16:18 |
| S28 | 0     | (produc\$3)((acid)near<br>(adapt\$3)near<br>(bacteria))                                      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>PO; DERWENT | SAME | ON | 2010/01/08<br>16:19 |
| S29 | 276   | (produc\$3)(acid)<br>(tolerant)(bacteria)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>PO; DERWENT | SAME | ON | 2010/01/08<br>16:20 |
| S30 | 83    | (produc\$3)(acid)<br>(tolerant)(bacteria)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>PO; DERWENT | WITH | ON | 2010/01/08<br>16:20 |
| S31 | 11149 | ((tangential)or((cross)<br>adj(flow)))(filtration)   | US-PGPUB;<br>USPAT; USOCR                         | AND  | ON | 2010/01/09<br>16:38 |
| S32 | 30123 | ((tangential)or((cross)<br>adj(flow)))(filtration)or<br>(filter))                            | US-PGPUB;<br>USPAT; USOCR                         | AND  | ON | 2010/01/09<br>16:39 |
| S33 | 50    | ((tangential)or((cross)<br>adj(flow)))(filtration)or<br>(filter))(bacteria)near<br>(viable)) | US-PGPUB;<br>USPAT; USOCR                         | AND  | ON | 2010/01/09<br>16:39 |
| S34 | 4774  | ((tangential)or((cross)<br>adj(flow)))(filtration)or<br>(filter))(bacteria)                  | US-PGPUB;<br>USPAT; USOCR                         | AND  | ON | 2010/01/09<br>16:40 |

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| S35 | 5     | ((tangential)or((cross)<br>adj(flow)))((filtration)or<br>(filter))(bacteria)<br>(permeate)((surface)<br>near(exchange))<br>(recirculation) | US-PGPUB;<br>USPAT; USOCR | AND | ON | 2010/01/09<br>16:41 |
| S36 | 26    | ((tangential)or((cross)<br>adj(flow)))((filtration)or<br>(filter))(bacteria)<br>((surface)near<br>(exchange))                              | US-PGPUB;<br>USPAT; USOCR | AND | ON | 2010/01/09<br>17:16 |
| S37 | 11    | ((tangential)or((cross)<br>adj(flow)))((filtration)or<br>(filter))(bacteria)<br>((volumetric)near(flux))                                   | US-PGPUB;<br>USPAT; USOCR | AND | ON | 2010/01/09<br>17:17 |
| S38 | 32    | ((tangential)or((cross)<br>adj(flow)))((volumetric)<br>near(flux))   | US-PGPUB;<br>USPAT; USOCR | AND | ON | 2010/01/09<br>17:23 |
| S39 | 282   | ((tangential)or((cross)<br>adj(flow)))((permeate)<br>near(rate))   | US-PGPUB;<br>USPAT; USOCR | AND | ON | 2010/01/09<br>17:38 |
| S40 | 2     | ((tangential)or((cross)<br>adj(flow)))((permeate)<br>near(rate))((surface)near<br>(exchange))  | US-PGPUB;<br>USPAT; USOCR | AND | ON | 2010/01/09<br>17:40 |
| S41 | 10795 | (recirculation)(rate)<br>(surface)(exchange)   | US-PGPUB;<br>USPAT; USOCR | AND | ON | 2010/01/11<br>07:30 |

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| S42 | 417  | (recirculation)(rate)<br>(surface)(exchange)                 | US-PGPUB;<br>USPAT; USOCR | SAME | ON | 2010/01/11<br>07:31 |
| S43 | 20   | (recirculation)(rate)<br>(surface)(exchange)                 | US-PGPUB;<br>USPAT; USOCR | WITH | ON | 2010/01/11<br>07:31 |
| S44 | 91   | ((recirculation)near<br>(rate))((surface)near<br>(exchange)) | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2010/01/11<br>07:32 |
| S45 | 3088 | ((recirculation)adj<br>(rate))                               | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2010/01/11<br>07:34 |
| S46 | 506  | ((recirculation)adj(rate))<br>(filtration)                   | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2010/01/11<br>07:35 |
| S47 | 861  | bacteria(flexible)<br>(hermetic)                             | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2010/01/11<br>08:46 |
| S48 | 394  | bacteria(flexible)<br>(hermetic)(bag)                        | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2010/01/11<br>08:47 |
| S49 | 7    | bacteria(flexible)<br>(hermetic)(bag)                        | US-PGPUB;<br>USPAT; USOCR | SAME | ON | 2010/01/11<br>08:47 |
| S50 | 9    | bacteria(flexible)<br>((hermetic)near(bag))                  | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2010/01/11<br>08:47 |
| S51 | 55   | (flexible)((hermetic)near<br>(bag))                          | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2010/01/11<br>08:48 |
| S52 | 23   | (flexible)((hermetic)near<br>(bag))                          | US-PGPUB;<br>USPAT; USOCR | SAME | ON | 2010/01/11<br>08:48 |
| S53 | 0    | "20041075407"  | US-PGPUB;<br>USPAT; USOCR | OR   | ON | 2010/01/11<br>10:04 |
| S54 | 0    | "20041075407"  | US-PGPUB;<br>USPAT; USOCR | OR   | ON | 2010/01/11<br>10:05 |



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|-----|------|--|---------------------------|------|----|---------------------|
| S55 | 1    | "20040175407"  | US-PGPUB;<br>USPAT; USOCR | OR   | ON | 2010/01/11<br>10:05 |
| S56 | 34   | "2364049"  | US-PGPUB;<br>USPAT; USOCR | OR   | ON | 2010/01/11<br>10:06 |
| S57 | 58   | "3228838"  | US-PGPUB;<br>USPAT; USOCR | OR   | ON | 2010/01/11<br>10:06 |
| S58 | 1    | "20040115308"  | US-PGPUB;<br>USPAT; USOCR | OR   | ON | 2010/01/11<br>10:07 |
| S59 | 1061 | (recirculation)(medium)<br>(bacteria)(concentrate)                     | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2010/09/18<br>10:11 |
| S60 | 9    | (recirculation)(medium)<br>(bacteria)(concentrate)                     | US-PGPUB;<br>USPAT; USOCR | SAME | ON | 2010/09/18<br>10:11 |
| S61 | 176  | (recirculation)(medium)<br>(bacteria)                                  | US-PGPUB;<br>USPAT; USOCR | SAME | ON | 2010/09/18<br>10:14 |
| S62 | 208  | ((recirculation)or((filter<br>near(efficiency)))<br>(medium)(bacteria) | US-PGPUB;<br>USPAT; USOCR | SAME | ON | 2010/09/18<br>10:16 |
| S63 | 2243 | (tangential)(viabil\$4)  | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2011/05/03<br>15:50 |
| S64 | 88   | (tangential)(viabil\$4)  | US-PGPUB;<br>USPAT; USOCR | SAME | ON | 2011/05/03<br>15:51 |
| S65 | 55   | ((tangential)near(flow))<br>(viabil\$4)                                | US-PGPUB;<br>USPAT; USOCR | SAME | ON | 2011/05/03<br>15:51 |
| S66 | 0    | ((tangential)near<br>(microfiltration))(viabil<br>\$4)                 | US-PGPUB;<br>USPAT; USOCR | SAME | ON | 2011/05/03<br>15:52 |

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|-----|----|--|---------------------------|-----|----|---------------------|
| S67 | 34 | ((tangential)near<br>(microfiltration))((viabil<br>\$4)                                  | US-PGPUB;<br>USPAT; USOCR | AND | ON | 2011/05/03<br>15:52 |
| S68 | 62 | ((tangential)near<br>(microfiltration))((viabil<br>\$4)or(viable))(cell)                 | US-PGPUB;<br>USPAT; USOCR | AND | ON | 2011/05/03<br>15:53 |
| S69 | 52 | ((tangential)near<br>(microfiltration))(((viabil<br>\$4)or(viable))near3<br>(cell))      | US-PGPUB;<br>USPAT; USOCR | AND | ON | 2011/05/03<br>15:53 |
| S70 | 0  | ((tangential)near<br>(microfiltration))(((viabil<br>\$4)or(viable))near3<br>(cell))      | EPO; JPO;<br>DERWENT      | AND | ON | 2011/05/03<br>16:00 |
| S71 | 0  | ((tangential)near<br>(microfiltration))((viabil<br>\$4)or(viable))(cell)                 | EPO; JPO;<br>DERWENT      | AND | ON | 2011/05/03<br>16:00 |
| S72 | 62 | ((tangential)near<br>(microfiltration))((viabil<br>\$4)or(viable))(cell)                 | US-PGPUB;<br>USPAT; USOCR | AND | ON | 2011/05/03<br>16:00 |
| S73 | 72 | ((tangential)near<br>(microfiltration))((viabil<br>\$4)or(viable)or(live))<br>(cell)     | US-PGPUB;<br>USPAT; USOCR | AND | ON | 2011/05/03<br>16:01 |
| S74 | 59 | ((tangential)near<br>(microfiltration))((viabil<br>\$4)or(viable)or(live))<br>(bacteria) | US-PGPUB;<br>USPAT; USOCR | AND | ON | 2011/05/03<br>16:02 |

|     |      |  |                           |      |    |                     |
|-----|------|--|---------------------------|------|----|---------------------|
| S75 | 1022 | ((tangential)near<br>(filtration))((viabil\$4)or<br>(viable)or(live))<br>(bacteria))       | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2011/05/03<br>16:02 |
| S76 | 2    | ((tangential)near<br>(filtration))((viabil\$4)or<br>(viable)or(live))<br>(bacteria))       | US-PGPUB;<br>USPAT; USOCR | SAME | ON | 2011/05/03<br>16:02 |
| S77 | 25   | ((tangential)near<br>(filtration))(((viabil\$4)or<br>(viable)or(live))near<br>(bacteria))  | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2011/05/03<br>16:05 |
| S78 | 42   | ((tangential)near<br>(filtration))(((viabil\$4)or<br>(viable)or(live))near4<br>(bacteria)) | US-PGPUB;<br>USPAT; USOCR | AND  | ON | 2011/05/03<br>16:06 |

## EAST Search History (Interference)

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5/4/2011 3:03:48 PM

C:\Documents and Settings\fking\My Documents\EAST\Workspaces\10590658 method for making a liquid concnetrate of Food-grade acclimated and viable bacteria.wsp